

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 08-197853

(43) Date of publication of application : 06.08.1996

(51) Int.Cl. B41M 5/36
C09K 9/02

(21) Application number : 07-037001 (71) Applicant : TOSHIBA CORP

(22) Date of filing : 24.02.1995 (72) Inventor : NAITO KATSUYUKI

SUGIUCHI MASAMI
TAKAYAMA AKIRA
MIYAMOTO HIROHISA
NISHIZAWA HIDEYUKI
FUJIOKA SAWAKO
WATANABE AKIKO
NOMAKI TATSUO

(30) Priority

Priority number : 06 31046 Priority date : 01.03.1994 Priority country : JP

06266394 31.10.1994

06287602 22.11.1994

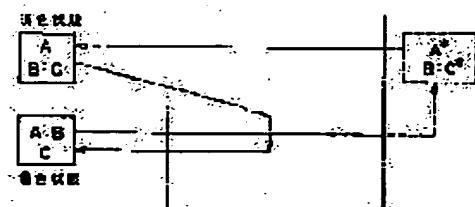
JP

JP

(54) THERMOSENSIBLE RECORDING MEDIUM AND RECORDING METHOD

(57) Abstract:

PURPOSE: To obtain a rewritable recording medium having a high contrast ratio in its coloring and fading conditions and capable of utilizing the background indication by including a coloration compound and a developer having a higher glass transit temperature than an ordinary temperature, and conducting recording and erasing of information based upon the reversible



crystalline and non-crystalline substance.

CONSTITUTION: This medium includes a coloration compound and a developing agent having a glass transition temperature of 25°C or higher, and recording and erasing operations of information are conducted on the basis of a reversible transit of a crystalline and a non-crystalline states. In addition, blending a matrix agent for lowering the density of the coloration compound and the developer agent allows the enhanced achievement of contrast. Since a much blending quantity of the developer agent is set, the temperature is effective in order for decreasing an energy quantity to be supplied for dissolving the recording material. At a room temperature T_{rt} , the phases of the coloration compound A and developer agent B and the phase of the reversing agent C are separated, and in a coloring condition, the system loses its color in a higher heating condition than the melting point of T_m , and rapidly cooled and then solidified. On the contrary, the system becomes a coloring condition as it is heated higher than the glass transition temperature T_g .

LEGAL STATUS

[Date of request for examination] 11.07.1997

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3176018

[Date of registration] 06.04.2001

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office